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S10	10	code adj group adj membership same permission	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 12:04
S11	6	(parent child) adj code adj group same membership same code adj assembly	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 12:10
S12	6	(parent child) adj code adj group same membership	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 12:10
S13	6	(parent child) adj code adj group same member\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 12:11
S14	10	(parent child) adj code same member\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 12:11
S15	6	(parent child) with code adj (group level) same member\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 12:12
S16	6	(parent child) with (set adj classes) and domain and security	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 12:14
S17	51	(parent child) with (set adj classes code adj group classes adj objects) and permission and security	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 12:14

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	74	code same permission same hierarchy	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 13:48
L2	16	hierarchy near5 code same permission	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 13:48
L3	9	("6526571").URPN.	USPAT	OR	ON	2006/07/14 14:17
L4	0	(membership and condition and parent adj code adj group).clm.	US-PGPUB; USPAT	OR	ON	2006/07/14 14:17
L5	0	(membership and condition and parent near4 code).clm.	US-PGPUB; USPAT	OR	ON	2006/07/14 14:18
L6	1	(permission adj set and parent near4 code).clm.	US-PGPUB; USPAT	OR	ON	2006/07/14 14:20
L7	10	permission adj set same code adj group	US-PGPUB; USPAT	OR	ON	2006/07/14 14:20
S1	598	((726/27) or (726/30)).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/07/14 13:46
S2	113	S1 and (@pd > "20060306")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/14 13:44


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1 [A secure execution framework for Java](#)



Manfred Hauswirth, Clemens Kerer, Roman Kurmanowytsh

 November 2000 **Proceedings of the 7th ACM conference on Computer and communications security**

Publisher: ACM Press

 Full text available: [pdf\(430.90 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Java security management, XML-based security configuration, management GUIs

2 [Access Control Models and Mechanisms: Induced role hierarchies with attribute-based RBAC](#)



Mohammad A. Al-Kahtani, Ravi Sandhu

 June 2003 **Proceedings of the eighth ACM symposium on Access control models and technologies**

Publisher: ACM Press

 Full text available: [pdf\(179.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Role-Based Access Control (RBAC) model is traditionally used to manually assign users to appropriate roles. When the service-providing enterprise has a massive customer base, assigning users to roles ought to be automated. RB-RBAC (Rule-Based RBAC) provides the mechanism to dynamically assign users to roles based on a finite set of authorization rules defined by the enterprise's security policy. These rules may have seniority relation among them, which induces a roles hierarchy. The main con ...

Keywords: RBAC, access control, attributes, authorization rules, roles, roles hierarchies

3 [Model driven security: From UML models to access control infrastructures](#)



David Basin, Jürgen Doser, Torsten Lodderstedt

 January 2006 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 15 Issue 1

Publisher: ACM Press

 Full text available: [pdf\(968.83 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a new approach to building secure systems. In our approach, which we call

Model Driven Security, designers specify system models along with their security requirements and use tools to automatically generate system architectures from the models, including complete, configured access control infrastructures. Rather than fixing one particular modeling language for this process, we propose a general schema for constructing such languages that combines languages for modeling systems with ...

Keywords: Model Driven Architecture, Object Constraint Language, Role-Based Access Control, Unified Modeling Language, metamodeling, security engineering

4 A rule-based framework for role-based delegation and revocation



Longhua Zhang, Gail-Joon Ahn, Bei-Tseng Chu

August 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 3

Publisher: ACM Press

Full text available: pdf(1.05 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Delegation is the process whereby an active entity in a distributed environment authorizes another entity to access resources. In today's distributed systems, a user often needs to act on another user's behalf with some subset of his/her rights. Most systems have attempted to resolve such delegation requirements with ad-hoc mechanisms by compromising existing disorganized policies or simply attaching additional components to their applications. Still, there is a strong need in the large, distrib ...

Keywords: Role, access control, delegation, revocation, rule-based

5 Workshop papers: How secure is AOP and what can we do about it?



Bart De Win, Frank Piessens, Wouter Joosen

May 2006 **Proceedings of the 2006 international workshop on Software engineering for secure systems SESS '06**

Publisher: ACM Press

Full text available: pdf(194.32 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

From a software engineering perspective, using Aspect-Oriented Programming (AOP) to build secure software has clear advantages. Until recently, the security perspective of this approach has been given less attention, however. This paper analyses the security risks in using AOP to develop secure software and discusses one particular solution to some of the identified risks, an aspect permission system. This permission system is one part of an overall AOP-based development platform for secure soft ...

Keywords: AOP, permission system, risks, security

6 Role-based access control in Java



Luigi Giuri

October 1998 **Proceedings of the third ACM workshop on Role-based access control**

Publisher: ACM Press

Full text available: pdf(976.33 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Applications: YouServ: a web-hosting and content sharing tool for the masses



Roberto J. Bayardo Jr., Rakesh Agrawal, Daniel Gruhl, Amit Somani

May 2002 **Proceedings of the 11th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  [pdf\(238.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

YouServ is a system that allows its users to pool existing desktop computing resources for *high availability* web hosting and file sharing. By exploiting standard web and internet protocols (e.g. HTTP and DNS), YouServ does not require those who access YouServ-published content to install special purpose software. Because it requires minimal server-side resources and administration, YouServ can be provided at a very low cost. We describe the design, implementation, and a successful intrane ...

Keywords: decentralized systems, p2p, peer-to-peer networks, web hosting

8 [Programming languages for mobile code](#)



Tommy Thorn

September 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(393.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Sun's announcement of the programming language Java more than anything popularized the notion of mobile code, that is, programs traveling on a heterogeneous network and automatically executing upon arrival at the destination. We describe several classes of mobile code and extract their common characteristics, where security proves to be one of the major concerns. With these characteristics as reference points, we examine six representative languages proposed for mobile code. The conclusion ...

Keywords: Java, Limbo, Objective Caml, Obliq, Safe-Tcl, distribution, formal methods, mobile code, network programming, object orientation, portability, safety, security, telescript

9 [Security architecture for component-based operating systems](#)



Trent Jaeger, Jochen Liedtke, Vsevolod Panteleenko, Yoonho Park, Nayeem Islam

September 1998 **Proceedings of the 8th ACM SIGOPS European workshop on Support for composing distributed applications**

Publisher: ACM Press

Full text available:  [pdf\(815.42 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

10 [Flexible control of downloaded executable content](#)



Trent Jaeger, Atul Prakash, Jochen Liedtke, Nayeem Islam

May 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(297.79 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We present a security architecture that enables system and application access control requirements to be enforced on applications composed from downloaded executable content. Downloaded executable content consists of messages downloaded from remote hosts that contain executables that run, upon receipt, on the downloading principal's machine. Unless restricted, this content can perform malicious actions, including accessing its downloading principal's private data and sending messages on th ...

Keywords: access control models, authentication, authorization mechanisms, collaborative systems, role-based access control

11 Role-based access control on the Web using Java



Luigi Giuri

October 1999 **Proceedings of the fourth ACM workshop on Role-based access control**

Publisher: ACM Press

Full text available: [pdf\(729.08 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

12 Access rights analysis for Java



Larry Koved, Marco Pistoia, Aaron Kershenbaum

November 2002 **ACM SIGPLAN Notices , Proceedings of the 17th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '02**, Volume 37 Issue 11

Publisher: ACM Press

Full text available: [pdf\(360.93 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Java 2 has a security architecture that protects systems from unauthorized access by mobile or statically configured code. The problem is in manually determining the set of security access rights required to execute a library or application. The commonly used strategy is to execute the code, note authorization failures, allocate additional access rights, and test again. This process iterates until the code successfully runs for the test cases in hand. Test cases usually do not cover all paths th ...

Keywords: Java security, access rights, call graph, data flow analysis, invocation graph, security

13 A taxonomy of computer program security flaws



Carl E. Landwehr, Alan R. Bull, John P. McDermott, William S. Choi

September 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 3

Publisher: ACM Press

Full text available: [pdf\(3.81 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

An organized record of actual flaws can be useful to computer system designers, programmers, analysts, administrators, and users. This survey provides a taxonomy for computer program security flaws, with an Appendix that documents 50 actual security flaws. These flaws have all been described previously in the open literature, but in widely separated places. For those new to the field of computer security, they provide a good introduction to the characteristics of security flaws and how they ...

Keywords: error/defect classification, security flaw, taxonomy

14 Protecting privacy using the decentralized label model



Andrew C. Myers, Barbara Liskov

October 2000 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 9 Issue 4

Publisher: ACM Press

Full text available: [pdf\(294.13 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Stronger protection is needed for the confidentiality and integrity of data, because programs containing untrusted code are the rule rather than the exception. Information

flow control allows the enforcement of end-to-end security policies, but has been difficult to put into practice. This article describes the decentralized label model, a new label model for control of information flow in systems with mutual distrust and decentralized authority. The model improves on existing multilevel s ...

Keywords: confidentiality, declassification, downgrading, end-to-end, information flow controls, integrity, lattice, policies, principals, roles, type checking

15 Role Engineering: A scenario-driven role engineering process for functional RBAC



roles

Gustaf Neumann, Mark Strembeck

June 2002 **Proceedings of the seventh ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available: pdf(171.50 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we present a novel scenario-driven role engineering process for RBAC roles. The scenario concept is of central significance for the presented approach. Due to the strong human factor in role engineering scenarios are a good means to drive the process. We use scenarios to derive permissions and to define tasks. Our approach considers changeability issues and enables the straightforward incorporation of changes into affected models. Finally we discuss the experiences we gained by app ...

Keywords: role engineering, role-based access control, scenarios

16 Improving the granularity of access control for Windows 2000



Michael M. Swift, Anne Hopkins, Peter Brundrett, Cliff Van Dyke, Praerit Garg, Shannon Chan, Mario Goertzel, Gregory Jensenworth

November 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 4

Publisher: ACM Press

Full text available: pdf(447.78 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This article presents the mechanisms in Windows 2000 that enable fine-grained and centrally managed access control for both operating system components and applications. These features were added during the transition from Windows NT 4.0 to support the Active Directory, a new feature in Windows 2000, and to protect computers connected to the Internet. While the access control mechanisms in Windows NT are suitable for file systems and applications with simple requirements, they fall short of the ...

Keywords: Access control lists, Microsoft Windows 2000, Windows NT, active directory

17 Migrating to role-based access control



Kami Brooks

October 1999 **Proceedings of the fourth ACM workshop on Role-based access control**

Publisher: ACM Press

Full text available: pdf(1.22 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: Tivoli Management Environment, enterprise systems management, migration, role-based access control, security management

18 RBAC for Collaborative Environments: Model driven security for process-oriented systems



David Basin, Jürgen Doser, Torsten Lodderstedt

June 2003 **Proceedings of the eighth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available: pdf(245.46 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Model Driven Architecture is an approach to increasing the quality of complex software systems based on creating high-level system models and automatically generating system architectures from the models. We show how this paradigm can be specialized to what we call Model Driven Security. In our specialization, a designer builds a system model along with security requirements, and automatically generates from this a complete, configured security infrastructure. We propose a modular approach to con ...

Keywords: RBAC, UML, metamodeling, model driven architecture, security engineering

19 Mobile agent security based on payment



Michael Sonntag, Rudolf Hörmanseder

October 2000 **ACM SIGOPS Operating Systems Review**, Volume 34 Issue 4

Publisher: ACM Press

Full text available: pdf(598.64 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Mobile agents are autonomous entities that handle tasks for their owner. Agents act on their own by reacting to changes and by planning their course of action. These agents can move from one server to another. In the future, agents will also be supplied with real money in some form to pay for resources or services. In this paper we discuss a dynamic security architecture, in which permissions are assigned in exchange for information (money). The decision as to which permissions are available, as ...

20 Access Control: Design and implementation of a flexible RBAC-service in an object-oriented scripting language



Gustaf Neumann, Mark Strembeck

November 2001 **Proceedings of the 8th ACM conference on Computer and Communications Security**

Publisher: ACM Press

Full text available: pdf(177.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we present the design and implementation of the xorbac component that provides a flexible RBAC service. The xorbac, implementation conforms to level 4a of the unified NIST model for RBAC and can be reused for arbitrary applications on Unix or Windows with a C or Tcl linkage. xorbac runtime elements can be serialized and recreated from RDF data models conforming to a well-defined RDF schema. Furthermore we present our experiences with xorbac for t ...

Keywords: XOTcl, mobile code, object-orientation, role-based access control, scripting language, web-applications

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